

ABSTRACT OF THE DISCLOSURE

A reciprocating pump has an action chamber, a diaphragm, a drive shaft, and a roller. The diaphragm is
5 displaced for changing the volume of the action chamber. A
groove is formed on a circumference of the drive shaft.
The roller is engaged with the groove and is connected to
the diaphragm. When the drive shaft is rotated, the roller
is guided by the groove to reciprocate along the axis of
10 the drive shaft. When the roller reciprocates, the
diaphragm is displaced along the axis of the drive shaft.